WOMEN INVADE 58 DEPARTMENTS IN RAILROADING

Prove Competence as Workers, From Locomotive Dispatchers to Watchwomen at Crossings

By Rebecca Drucker

HERE have been few industries that have guarded themselves more jealously from the en creachment of women than that of railreading. Even in those branches of work to which women have long been admitted in other industries the railroads have preferred using boys to vomen. The tradition was that a boy who entered the railroad even as office or switch-boy would aspire to become engineer or conductor or agent by intervening stages that were insurmountable by women, and that therefore women would not devote themselves to their work with the same application. On the part of the workmen there was the well sustained objection that the admission of women would mean the breaking down of wages. The experience of the past year, though slight as yet by comparison with that of England, has modified both these traditions. Women are entering railway work on the same wage schedule as men, and the railroads are finding to their surprise that the same desire to achieve exists with women as with men.

labor of all industries directly connected with the war. None is more to be an electrical power operative. directly connected with it than trans- Like to Learn portation. Of a million women at war work in England 100,000 are at Something Real work on transportation. In this country the labor shortage is so much less acute that the diluting is provania Railroad Company's system of porarily shifted to the store room. lines east of Pittsburgh and Erie, "Do you like it?" I asked. "You of the year before.

What They Have Done Up to Date

There were on March 1, 1918, for in- something here." are the following interesting statistics: strong."

- 5 Locomotive dispatchers,
- 2 Distributers Pullman space, 20 Draughtswomen,
- 6 Draughting apprentices, 6 Hammer operators,
- 3 Gang leaders,
- 1 Coal inspector, 5 Mechanics' helpers,
- 4 Painters, 7 Power operators (electric plant),
- 34 Shop hands,
- 138 Telegraph operators (students),
- 4 Switch tenders,
 - Ticket sellers, 6 Tracers
- 2 Turntable operators. 36 Trackwomen, 4 Warehousewomer
- The more obvious results are on what one railroad man has illuminatingly called the "housekeeping side of railroading." As cleaners of cars, dispensers of information, sellers of tickets, markers of bulletin boards and in the performing of the minor semiimportant and important duties of the indoor departments the substitution has wrought no change in quality of

tions of labor for women. On the New York Central they found the women dispensers of information by 'phone quicker, more patient and often more reliable than the men they had heretofore used. And the thousands of questions that are hurled from invisible sources at these girls tax these qualities to the limit.

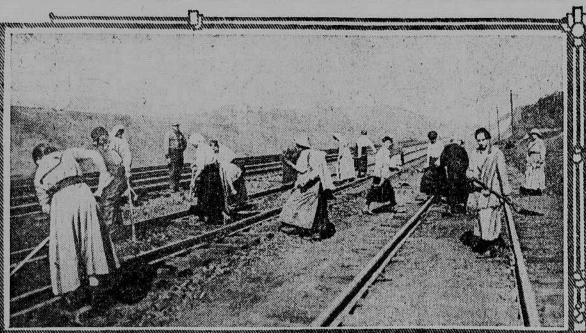
labor performed or in the usual condi-

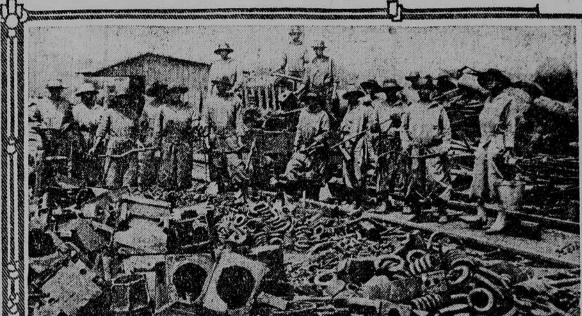
When does such and such a train leave? What connections do I make at such and such a place? What is the fare? One way, excursion and round

high degree of alertness and patience, but a grasp of the whole intricate

Railroad School

Open to Women





Gang of women section hands cleaning track on Pittsburgh division of the Pennsylvania.

bookkeeping job that paid \$7 a week she responded joyfully to the poster of the Eric Railroad advertising openings for women. Her father and brothers were workers on the railroad In England, by the munitions act, and a feeling for it was innate in her. the government set up an elaborate In overalls at a light drill press she bureau for the dilution with women carned twice as much as she had as a bookkeeper. She is now fitting herself

The little Italian girl in the store room of the Jersey City repair shops ceeding much more cautiously. Yet had been in the silk mills in Paterson. I have before me a table of the em- She worked at a drill press until the ployment of women by the Pennsyl- shop burned down and then was tem-

showing that in the last year women bot!" came back with unmistakable have been put to work at fifty-eight enthusiasm. "Why?" I persisted. occupations, as against possibly a dozen "Well," she hesitated-then pointed around her to the lifting cranes outside and the cars being shunted back and forth and the men at the nearby forges-"I guess it's because you learn

year before; 192 messengers and as- er she will earn forty-two cents)- she liked outdoor work.



en, as against 60. And of pioneers in housework or mill work? "I like ern shop to work at a lathing machine all reasons—just as do the men beside piece of work. In cases where women sonnel. Rest periods are allowed each jobs never before filled by women there man's work," she said. "I'm awful so that she could gain the experience whom they work.

the Pennsylvania yards at Trenton important position, to return no more women. These shops, normally em- for welfare work, and in this the Angus stance, 3,551 clerks and stenographers, And the large Swedish girl-blonde were accustomed to the work of stoop- to teaching. The widow in the store- ploying about 1,200 men, made adequate shops showed a high degree of enas against 448 on May 1, 1917; 257 at- and serious-who was learning electric ing and lifting. They had done heavy room of the Port Jervis shops was pay- provision for the admission of women, lightenment. Retiring rooms were built tendants in store rooms, tool rooms and welding at a helper's wage of twenty- housework. The girl who was tending ing off her dead husband's debts and taking into consideration the funda- in a quiet corner of the shops and a parcel rooms, as against five of the eight cents an hour (as a master weld- the switch in the yard did it because taking care of three children, a cow mental temperamental and ph sical matron was installed to look after the year before; 192 messengers and as er she will earn forty-two cents)—
sistants, as against 19; 92 signal womsistants, as against 19; 92 signal womwhy did she do this in preference to
One young teacher came to a West-

women shop laborers in the Trenton yards, many of whom are

shops may be gained from the follow- fied with the results. The unskilled ng survey published in "The Railway labor of men may in many cases be re-

"On the main floor of the machine and without any distinctive change. A erecting shops they were found handing out tools from the central tool room. Several of them operate milling machines and brass lathes and do other light work in the manufacturing tool room. Several women are a'so employed in the electrical repair shop making repairs to armatures, field

inside employes in the storekeeping de- and maintaining of cars they were partment are women. They were found found to equal the average of the men doing such work as sorting small cast- they had replaced. On the side of ings on trucks, in the unloading of skilled work it was found that a high materials from cars, packing material degree of efficiency may be developed or shipment, checking shipments and by a woman in light machine workdoing clerical work, sweeping and rather remarkable considering how untrucking of material.

at least 200 are engaged in the various with things mechanical. The quantity tasks of repairing passenger equipment of work turned out by women is not and building new freight cars. It is equal to that of men, but nearly everythe practice on the Canadian Pacific where women have been anxious to go to do practically all of the passenger on piece work where a premium is car overhauling during the winter placed on the speeding up of output, months, when the demand for passen- In accuracy, in caution in matters of ger cars is lightest. During the sum- safety, in sticking to the job, women mer months a large part of the force are perhaps the superior of men. in the passenger car department is Fewer accidents occur to women than transferred to the freight car shops to men on the same job and there are and is used in the building of new no women "floaters."

Have Long Been in 'Housek eeping Side' -Now Are Section Hands and Power Operators

'so employed in cleaning and repair ng triple valves.

"In the steel shop, where the steel nd passenger cars, women are used or operating drill presses. One young ady was noticed operating a three-pindle bolt threader.

Women are used in the truck shop or operating drill presses, cleaning sweeping. One woman was engaged in operating three-power hackaws. Forty-one women were found t work on the scrap docks and in the clamation plants. These women were ore muscular than those doing the door work and handled the heavy arts and pushed wheelbarrows with e same energy as do men ordinarily engaged in this class of work."

The Pennsylvania Railroad has gone

the furthest and professes itself satis-

The Output in Relation to Man's

placed by the unskilled labor of women woman time checker accomplishes as much work as a man. So does a woman gate keeper or switch tender. In the reclaiming of scrap J. P. Murphy, general storekeeper in Cleveland of the New York Central, found that women were superior to male laborers in sorting and laying aside articles that might be worked over. In the handling "Between 40 and 50 per cent of the of light freight, in the cleaning of reads acquainted the average woman (and "In the locomotive repair department these are largely average women) is

Potatoes

the use of women has been largely due to placing them where their health would not be conserved and where it was hard for them to maintain standards of morality. In admitting women to reflway work there is great denser for both the railroads and the woman on the job if all the bars safeguarding her physically and morally are let down. And as we passed by a short time after we found it necessary to me. e use of women has been largely due placing them where their health time after we found it necessary to put up our masks. Another time an aeroplane came over to give us a demonstration in regulating fire from the air.

why did hot on the preference to housework or mill work? "I like man's work at a larking machine man's work at a larking machine man's work." The young Englahwana was taking mechanic who had joined the army. She are the conditions of work attracted women doing laborer's work of hearth the work attracted women doing laborer's work of hearth the work attracted women doing laborer's work of the work attracted the work attracted women doing laborer's work of the work attracted the work attracted women doing laborer's work of the work attracted the work at the work attracted the work attracted the work attracted the work at the work attracted the work at the work attracted the work at the work attracted to the work at the work attracted the work at the work attracted to the work at the work attracted the work at the work attracted to the work at the work a

By Lawrence Moore

Staff

WO Spaniards, a Swiss, a Serbian and a Montenegrin-these were our companions as E. and I were marched through the streets or Paris from the Foreign Legion recruitinto the Legion Etrangère of France "pour la durée de la guerre"-for the period of the hostilities. We stood at the opening of our great adventure; we were about to join that famous fighting organization, made up of all the outcasts and adventurers of the world, but which has alone received

the highest decorations that the

French government bestows for valor, However, E. and I soon found ourselves separated from our pirate-looking companions. For in view of the sented to transfer us from the First The Pennsylvania has opened to wom- This would probably be a less roen their Philadelphia school that has mantic course for us than to follow heretofore been conducted for young our international friends into the Formen desiring to learn railroad work. eign Legion infantry, but we decided The course includes telegraphy, man- that it would offer the most of opporual block signal operation and station tunities. Just exactly what there was office work. The Missouri, Kansas & in store for us we did not know, and



Top row (leit to right)-Charles Bayly, Jr., Princeton, '18, Denver; P. A. Rogers, Columbia, '19, Binghamton, N. Y.; F. T. Henderson, Columbia, fact that we were Americans and vol- '17, New York City; E. L. Egger, Beloit, '18, Elgin, Ill Middle row-Robert Smyth, California, '17, Berkeley, Cal.; A. L. Partridge, Cornell, '17, St. Louis; unteers, and possessed of some hum- G. L. Sommer, Columbia, '20, Newark, N. J.; Richard Eldridge, Princeton, '18, Houston, Texas; Benjamin Carpenter, jr., Harvard, '16, Chicago; J. D. ble knowledge of mathematics, Mon- Hutchinson, Howard, '19, Boston; R. W. Wood, Harvard, '16, Baltimore; W. C. Towle, Notre Dame, '18, New York City; T. F. McAllister, Michigan, '18, sleur le Ministre de la Guerre con- Grand Rapids, Mich.; W. W. Cortelyou, Cornell, '16, New York City; Lawrence Moore, Williams, '19, Fennycroft, West Falmouth, Mass; T. P. Lane, California, '16, San Francisco; F. H. Herrington, Washington and Jefferson, '15, Latrobe, Penn. Bottom row-E. J. Phelps, jr., Yale, '14, Minneapolis; W. M. Regiment Etrangère to the 32eme d'ArBarber, Oberlin, '19, Toledo; G. W. Patterson, Jr., Yale, '14, Ann Arbor, Mich.; E. H. Ludbury, Amherst, '09, Mount Vernon, N. Y.; Stanton Garfield, Williams, '17, Williamstown, Mass.; J. F. Howe, Harvard, '18, Belmont, Mass.

where it could never be reached in trary to the warlike aims of their work, and the result is that we have about experience. Ours has commanded

case of need. Probably this is only a And then came the war, and imme- ten or eleven hours of hard work a battery for over two years. We Amerdiately the students went out to carry day. Half our time, about, is spent cans form a separate brigade, and In this regalia we went across the on their experiments on the real field in lectures and recitations, and the ours is the first brigade to be comtown to the school, to join the little of war. But soon the French army rest is spent in practical drill and ex- posed entirely of foreigners. group of Americans already there. And began to find itself in great need of ercises in the field. Our lectures in-

to the alternate, factors and the alternate and

And at several times we have had other practical demonstrations in the vari- Hold Respect of ous problems of artillery. A typical Their Fellow Workers day's schedule is something like the

Their Fellow Workers

Take the small matter of the work done in a stooping posture. Nearly every shopworker knows of the time wasted in straightening up a back bent from work done in a stooping posture. In one Erie shop seats were unknown until women were admitted to some light machine work, and the law required that seats be furnished to some light machine work, and the law required that seats be furnished to some light machine work, and the law required that seats be furnished them. The old superintendent was amazed to find the increase and improvement in the work scoomplished. He furnished seats to the men and found the same increased efficiency. He has become a convert to this idea, and now preaches it to other superintendents of workshops. In his time it had been a matter of pride that a man should do his work standing up, no matter what position it required.

The law decrees equal pay for women replacing men and the same tenhour day. In some states it requires two rest periods each day and seats at machine work. Yet the whole work of readjustment is scarcely touched and cannot be until women enter the work in larger numbers. If the war should continue for a long time there is no doubt that this will haven and that the industry will see many changes. There is properly a reluctance to put women to work on the heavier work of railroading. In the interests of con-